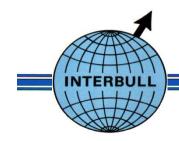
Interbull Annual Meeting Orlando, Florida, USA, July 9, 2015 Genotype Exchange (GENOEX) platform Parentage SNP Exchange (PSE) Service



Proposal for GENOEX-PSE Business Rules

Hossein.Jorjani@slu.se



- Setting the stage
- **GENOEX** services
- GENOEX-PSE Task Force
- The proposal Draft 4

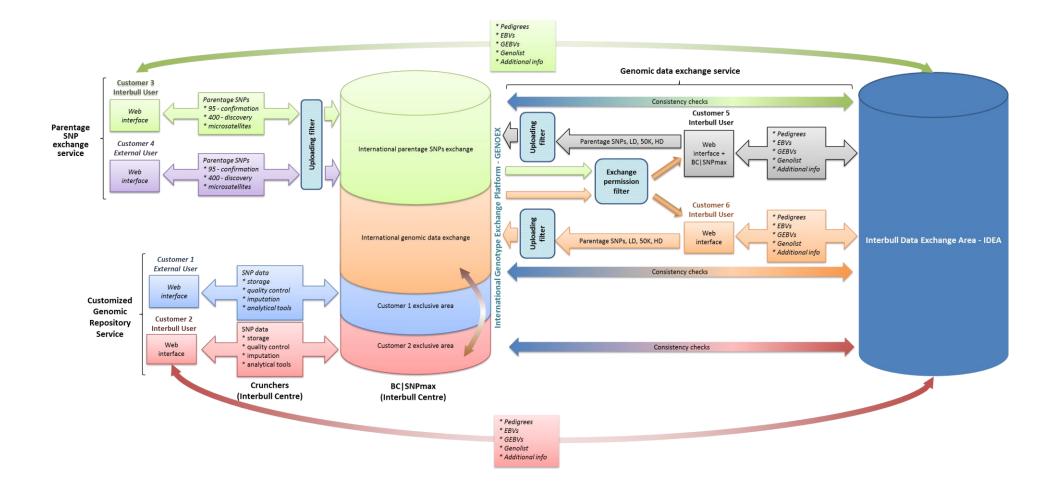


International Genotype Exchange (GENOEX) platform

- Parentage SNP Exchange (PSE) service
- Genomic Data Exchange (GDE) service
- Customized Genomic Repository (CGR) service

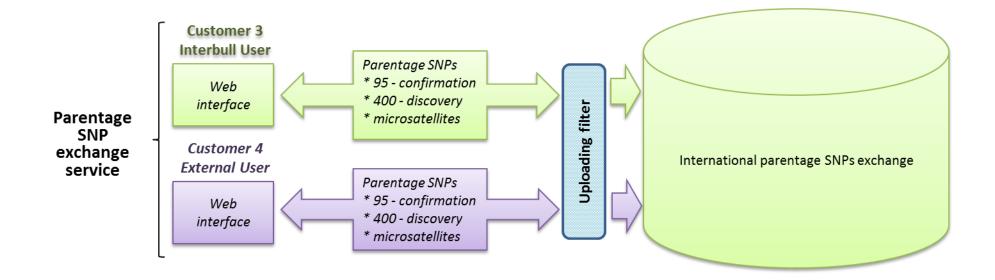


International Genotype Exchange (GENOEX) platform





Parentage SNP Exchange (PSE) service





- 1. Sophie Mattalia, Interbull Steering Committee;
- 2. Suzanne Harding, ICAR Parentage Recording Working Group;
- 3. Wim van Haeringen, ICAR Genetic Analysis Working Group;
- 4. Matthew Shaffer, ICAR Breed Associations Working Group;
- 5. Andrew Cromie, ICAR Interbeef Working Group,
- 6. Secretary: Brian Van Doormaal, Interbull Steering Committee;
- 7. Convener: Hossein Jorjani, Deputy Director of the Interbull Centre;



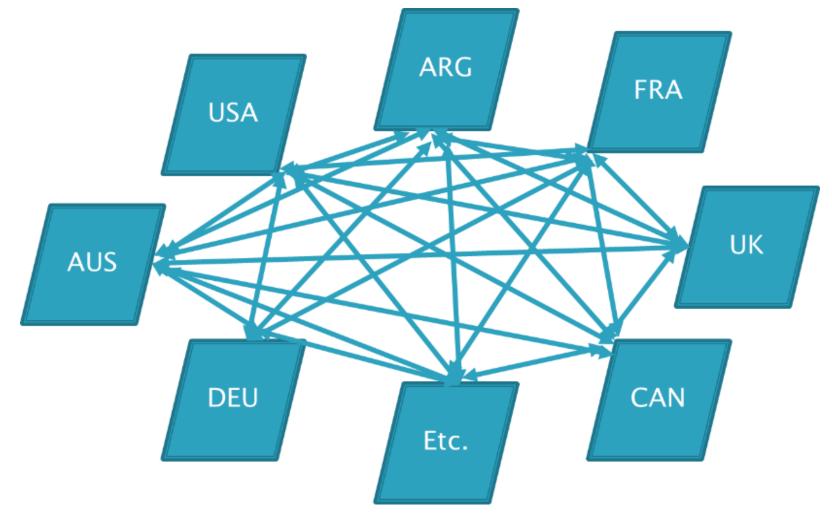
GENOEX – PSE Business Rules

DRAFT 6

Updated 2015-06-01

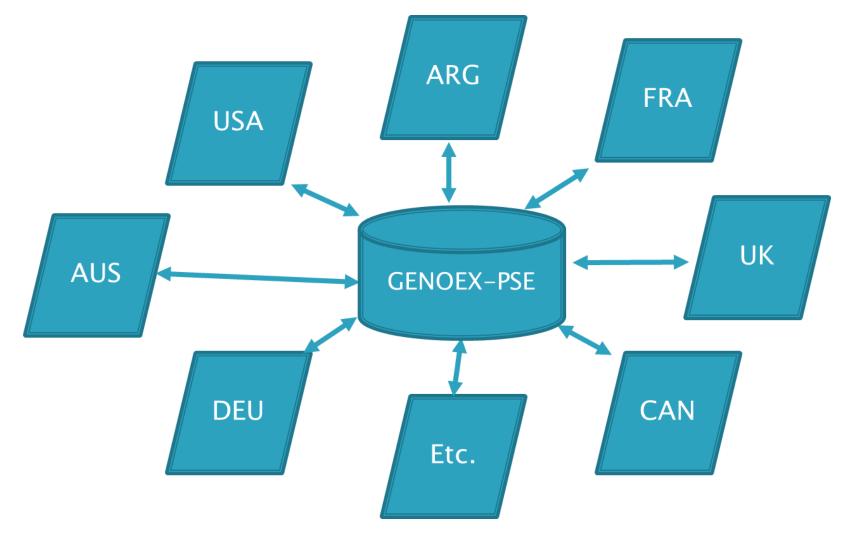


Before GENOEX – PSE





After GENOEX – PSE





GENOEX-PSE

- Is a tool to facilitate (not a replacement for national authorities);
- ITBC will not have the right to do parentage analysis;
- SNP exchange ONLY for parentage analysis;
- A voluntary initiative;
- National responsibilities will remain where they are now;
- Data providers can withdraw their data



- Organizations officially in charge of parentage certification in each of the ICAR member countries, or otherwise traditionally providing parentage certificate
- Organizations that in their capacity as the official body in charge of genetic/genomic evaluation services
- ICAR/ISAG accredited laboratories that are under contract with the organizations identified in 1 or 2 above



- An ICAR nominated member (chairperson);
- ICAR Parentage Recording Working Group;
- ICAR Genetic Analysis Working Group;
- ICAR Breed Associations Working Group;
- Interbull;
- Interbeef;
- Interbull Centre.



- User rights:
 - Access to GENOEX-PSE for uploading and downloading of its own data;
 - Access to GENOEX-PSE for downloading the SNP data required to perform parentage analysis;



- User obligations:
 - Agree to use the data ONLY for parentage analysis ;
 - Commit to uploading its data, when any exists, on a regular basis;
 - Report any pedigree conflicts;
 - Follow ICAR rules and regulations related to GENOEX PSE;
 - Follow ICAR/ISAG accreditation rules and regulations;
 - Follow the ICAR quality assurance standards for the SNP/STR data.



 Conflicts arising from different SNP/STR being reported for the same animal;

 Conflicts arising from the difference between the SNP/STR data and the pedigree certificate.



Non-for-profit fee structure



- GENOEX PSE database in in place;
- Translation of Business rules to functional design:
 - 4 weeks (SEP 2015)
- Details of the technical / scientific specifications:
 - 1 Week (already in place) \rightarrow GENOEX PES Technical Group



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